

PATENT COOPERATION TREATY

PCT/US2004/036430

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From the INTERNATIONAL BUREAU

By **NOTIFICATION CONCERNING**
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

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Docket System
Status Report
Docket Book

CLOSED
extended
US national
phase

Date of mailing (day/month/year)
11 May 2006 (11.05.2006)

Applicant's or agent's file reference
DRE-0158

IMPORTANT NOTICE

International application No.
PCT/US2004/036430

International filing date (day/month/year)
01 November 2004 (01.11.2004)

Priority date (day/month/year)
31 October 2003 (31.10.2003)

Applicant

DREXEL UNIVERSITY et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference DRE-0158	FOR FURTHER ACTION		See item 4 below
International application No. PCT/US2004/036430	International filing date (<i>day/month/year</i>) 01 November 2004 (01.11.2004)	Priority date (<i>day/month/year</i>) 31 October 2003 (31.10.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant DREXEL UNIVERSITY			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

Date of issuance of this report
01 May 2006 (01.05.2006)

Authorized officer

Yolaine Cussac

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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 20 MAR 2006

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WIPO

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To:
JANE MASSEY LICATA
LICATA & TYRRELL P.C.
66 E. MAIN STREET
MARLTON, NJ 08053

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

15 MAR 2006

Applicant's or agent's file reference

DRE-0158

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/US04/36430

International filing date (day/month/year)

01 November 2004 (01.11.2004)

Priority date (day/month/year)

31 October 2003 (31.10.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC(7): H04N 5/225, 5/74 and US Cl.: 348/335, 222.1, 272, 771

Applicant

DREXEL UNIVERSITY

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201

Date of completion of this opinion
27 December 2005 (27.12.2005)

Authorized officer

Tuan V. Ho

Telephone No. 571 272 2600

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/36430

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/36430

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 1-3 YES

Claims NONE NO

Inventive step (IS)

Claims 1-3 YES

Claims NONE NO

Industrial applicability (IA)

Claims 1-3 YES

Claims NONE NO

2. Citations and explanations:

Claims 1-3 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest:

With regard to claim 1, a device for producing a high resolution photographic image of a scene, said device comprising a micromirror array containing an array of micromirrors, each mirror being capable of tilting individually in at least two directions, said micromirror array being positioned with respect to the photographic imaging system so that each mirror of the micromirror array transfers a reflected pixel of the scene to be photographed to the photographic imaging system.

With regard to claim 3, a method for producing a high resolution image of a scene comprising photographing reflected pixels from the micromirror array with the photographic imaging system comprising a device for producing a high resolution photographic image of a scene, said device comprising a micromirror array containing an array of micromirrors, each mirror being capable of tilting individually in at least two directions, said micromirror array being positioned with respect to the photographic imaging system so that each mirror of the micromirror array transfers a reflected pixel of the scene to be photographed to the photographic imaging system.

Claims 1-3 meet the criteria set out in PCT Article 33(4), and thus claims 1-3 have industrial applicability because the subject matter claimed can be made or used in industry.